BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE
Executive Engineeer
Yelahanka Satellite Town sub Division
B.B.M.P., Bangalore - 92

APPROVED SCHEDULE-B

Name of work: "Consultancy services for preparation of DPR for the work of Construction of RCC Drain and Culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division. "Est cost Rs. 175 Lakhs"

Sl No	Description of Work	Unit	Quantity as per Estimate	Rates	
				In figures	In Words
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. P No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum	1848.88	211.79	Two Hundred Eleven Rupees and Seventy Nine Paise
2	KSRRBM29001.Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed,placed infoundation and compacted by vibration including curing including cost of materials,labour, HOM complete as per the specification Specification No. P No. 254/ Item No. 34.2/ PWD SR 2018-19	cum	329.11	4479.56	Four Thousand Four Hundred Seventy Nine Rupees and Fifty Six Paise
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.. Item No. 37.59.2/ page no:271/PWD SR 2018-19	Cum	568.78	7070.20	Seven Thousand Seventy Rupees and Twenty Paise
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (I No-28.8.2,P No-229)	Tonne	34.64670384	72326.99	Seventy Two Thousand Three Hundred Twenty Six Rupees and Ninety Eight Paise
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	1418.42	2337	Two Thousand Three Hundred Thirty Seven Rupees and No Paise
6	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer Incharge	Sqm	67.92012	5418	Five Thousand Four Hundred Eighteen Rupees and No Paise
7	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ PWD SR 2018-19	Nos	3720.435556	477	Four Hundred Seventy Seven Rupees and No Paise

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8	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)	Sqm	503.898	84.8	Eighty Four Rupees and Eighty Paise
9	KSRRB M300-13. Excavation for roadway in hard rock (requiring blasting) by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and stacking at site of cut road with a lead of 1.00 km and complete as per specifications. (Excavated rock credited to contractor) MORTH Specification No. 301	Cum	229.5	43.46	Forty Three Rupees and Forty Six Paise
10	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)	Cum	76.5	1855	One Thousand Eight Hundred Fifty Five Rupees and No Paise
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum	117.3	2001.28	Two Thousand One Rupees and Twenty Eight Paise
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	Sqm	510	33.92	Thirty Three Rupees and Ninety Two Paise
13	KSRRB 500-11. Providing and laying bituminous macadam on Prepared Surface with crushed Coarse aggregates as per Design mix formulae for base/binding course including loading of aggregates with F.E loader,Hot mixing of Stone aggregates and bitumen in Hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve desired density, but excluding cost of primer/Tack coat including lead, lift and cost of all materials, labour HOM of machinaries complete as per Specifications. MORTH Ch 5. using 40/60 TPH capacity HMP with Mechanical paver Gr-II (50mm - 75mm) with 3.4% VG-30 bitumen.(P.No-159,I No-21.11.6)	Cum	25.5	7428.48	Seven Thousand Four Hundred Twenty Eight Rupees and Forty Eight Paise
14	KSRRB M500-2: Cleaning the excisting black topped surface with brooms, soft brushs and finally dusting with old gunny bags and compressed air to receive bituuminous tratement including cost of all materials, labours, HOM complete as per specifications. P No. 158/ Item No. 21.2/ PWD SR 2018-19	Sqm	510	5.3	Five Rupees and Thirty Paise
15	KSRRB M500-10. Tack Coat:- Providing and applying tack coat using 80/100 grade bitumen (VG 10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 (P-159, Item no 21.10).	Sqm	510	12.72	Twelve Rupees and Seventy Two Paise

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6	KSRRB M500-19: providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH specification 30-45mm compacted thickness (GradingII) With 6% bitumen 80/100, No. 161/ Item No. 21.22.6/ PWD SR 2018-19	Cum	20.4	8831.92	Eight Thousand Eight Hundred Thirty One Rupees and Ninety Two Paise
17	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 181., I.No.24.15 of KPWD S.R 2015-16).	Sqm	20.4	454.74	Four Hundred Fifty Four Rupees and Seventy Four Paise

1. The Work should be executed as per the specification and standard specified by the PWD & Other specification of the Bangalore Mahanagara Palike and as directed.
2. The Work should be carried out as per the directions and instructions of the concerned engineer
3. The Contractor should maintain the quality of work as per the standard specifications.

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